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## Quantification of nitrogen deposition and its uncertainty with respect to critical load exceedances

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# **Quantification of nitrogen deposition and its uncertainty with respect to critical load exceedances**

Albert Bleeker

Cover picture taken by A. Bleeker near Rjukan in Norway, showing *Rhizocarpon geographicum* (map lichen). This lichen grows (mostly) on rocks in mountainous regions under low air pollution conditions.

Quantification of nitrogen deposition and its uncertainty with respect to critical load exceedances  
(PhD Thesis, VU University Amsterdam)

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### **On Uncertainty**

*"... as we know, there are known knowns. These are things we know we know. We also know there are known unknowns. That is to say, there are things that we know we don't know. But there are also unknown unknowns -- the ones we don't know we don't know ..."*

(Defense Secretary Donald Rumsfeld in a Department of Defense news briefing in 2002)

